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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/675,550	09/30/2003	Jacey Robert Beaucage	HSJ920030183US1	6525
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Bracewell & I	Patterson LLP	NGUYEN, DUNG V		
PO Box 61389				0.000.000
Houston, TX	77208		ART UNIT	PAPER NUMBER
			3723	

DATE MAILED: 08/19/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		lot			
	Application No.	Applicant(s)			
	10/675,550	BEAUCAGE ET AL.			
Office Action Summary	Examiner	Art Unit			
	Dung V Nguyen	3723			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply of NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed rs will be considered timely. I the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on					
2a) ☐ This action is FINAL . 2b) ☑ This					
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.			
Disposition of Claims					
4) Claim(s) 1-17 is/are pending in the application.	•				
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.				
5) Claim(s) is/are allowed.					
6) Claim(s) is/are rejected.					
7)⊠ Claim(s) <u>1-17</u> is/are objected to.					
8) Claim(s) are subject to restriction and/o	r election requirement.				
Application Papers					
9) The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)☐ The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list	of the certified copies not receive	ed.			
Attachment(s)					
1) X Notice of References Cited (PTO-892)	4) Interview Summary	(PTO 413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>9/30/03</u> .	5) Notice of Informal P 6) Other:	Patent Application (PTO-152)			

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DETAILED ACTION

Claim Objections

1. The numbering of claims is not in accordance with 37 CFR 1.126 which requires the original numbering of the claims to be preserved throughout the prosecution. When claims are canceled, the remaining claims must not be renumbered. When new claims are presented, they must be numbered consecutively beginning with the number next following the highest numbered claims previously presented (whether entered or not).

Misnumbered claims 13-16 have been renumbered 14-17. Claim Rejections - 35

USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1, 2, 4, 5 and 8-10 are rejected under 35 U.S.C. 102(e) as being anticipated by Lee et al (US 2003/0073383). Lee et al discloses a system for precisely controlling an amount of flatness or curvature of a lapping plate 20 comprising a rotatable platform 11, a lapping plate mounted to the rotatable platform 11 for rotation therewith, the lapping plate comprising a base 30 formed from a first metal alloy, a second metal alloy 20 formed on the base 30, the first and second metal alloys having different coefficients of linear expansion, a holder 13 having a workpiece located

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between the holder 13 and the lapping plate 20, an abrasive slurry 15 located between the lapping plate 20 and the workpiece 40, means 50 for controlling a temperature of the lapping plate and thereby precisely manipulating an amount of flatness or curvature of the lapping plate, wherein a bimetallic effect is exploit to induce a linear expansion in the lapping plate so that the flatness of curvature of the lapping plate is manipulated with thermal cycling, wherein the lapping plate can be configured in a flat, concave or convex shape thereby gives the workpiece 40 a high crown-to-camber ratio, wherein a temperature of the workpiece 40 and the abrasive slurry 15 are controlled along with the temperature of the lapping plate, wherein the lapping plate is formed from metal alloys (note Fig. 1-6, paragraph [0019] to [0059]).

4. Claims 14-17 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Maeda et al (US 6,074,2830). Maeda et al discloses a lapping plate 11 comprising a base formed from a first metal alloy, a second metal alloy formed on the base, the first and second metal alloys having different coefficients of linear expansion, wherein the lapping plate is configured in a flat shape, wherein the first metal alloy is tin and the second metal alloy is steel (note 3 and 4, col. 7, lines 14-29). Claims 14-17 are Product-by-Process claims and MPEP 2113 states that Product-by-Process claims are not limited to the manipulations of the recited steps, only the structure implied by the steps.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

6. Claims 1-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Maeda et al (USPN 6,074,283) in view of Lee et al (US 2003/0073383). Maeda et al discloses a system for precisely controlling an amount of flatness or curvature of a lapping plate comprising a rotatable platform, a lapping plate 11 mounted to the rotatable platform for rotation therewith, a holder having a workpiece 3 located between the holder 30 and the lapping plate 11, an abrasive slurry located between the lapping plate 11 and the workpiece 3, wherein the workpiece 3 is a magnetic slider, wherein the lapping plate 11 can be configured in a flat shape, wherein the lapping plate 11 is formed from a plurality of layers of materials having different coefficients of linear expansion, wherein the layers are formed from metal alloys, wherein the layers comprise a tin alloy adjacent to the workpiece 3 and a steel alloy base, the lapping plate 11 inherently comprising a material with a linear expansion coefficient of 23x10⁻⁶/°C bonded to another material with linear expansion coefficient of 10x10⁻⁶/°C, wherein the lapping plate gives the workpiece a negative crown and positive camber values (note Fig. 3 and 4, col. 7, line 9 to col. 8, line 44). However, Maeda et al does not disclose a means for controlling a temperature of lapping plate. Lee et al discloses a means for controlling a temperature of the lapping plate. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the system of Maeda et al with the means for controlling the lapping plate disclosed by Lee et al in order to enhance the lapping process.

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Conclusion

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7. The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure. Tanaka et al, Kimura '685 and '152, Kawamoto et al and Kishida

et al are cited to show lapping machines.

8. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Dung V Nguyen whose telephone number is 703-305-

0036. The examiner can normally be reached on M-F, 6:30-3:00.

9. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Joseph J Hail can be reached on 703-308-2687. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

10. Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

DVN

August 17, 2004

Jung van hagnym

DUNG VAN NGUYEN PRIMARY EXAMINER